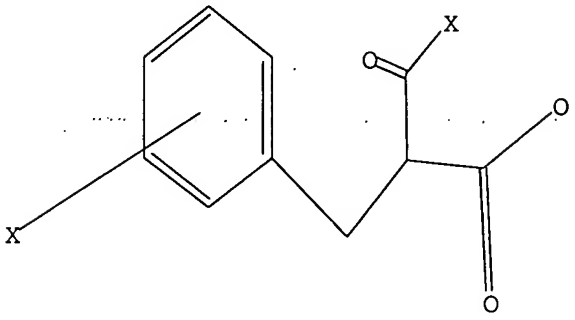
=> .
Uploading C:\Program Files\Stnexp\Queries\185c.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR




Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
**REGISTRY INITIATED**
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 12:09:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 207 TO ITERATE

100.0% PROCESSED 207 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.03

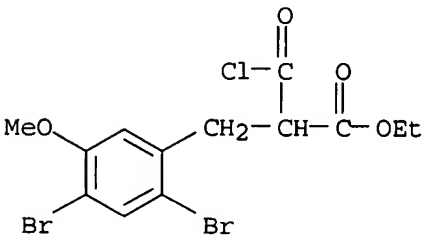
L2 1 SEA SSS FUL L1

L3 1 L2

=> d ibib abs hitstr

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:423504 CAPLUS
DOCUMENT NUMBER: 113:23504
TITLE: Marine bacteria. II. Synthesis of cyclic and steric hindered pseudilines
AUTHOR(S): Pudleiner, Heinz; Laatsch, Hartmut
CORPORATE SOURCE: Inst. Org. Chem., Univ. Goettingen, Goettingen, D-3400, Germany
SOURCE: Liebigs Annalen der Chemie (1990), (5), 423-32
CODEN: LACHDL; ISSN: 0170-2041
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 113:23504
GI For diagram(s), see printed CA Issue.
AB The pentabromopseudilin (I, R = H) analogs I (R = Br) and II were prepared II was obtained from 8-hydroxy-1-tetralone via Paal-Knorr cyclization of the tetralone III.
IT **125714-95-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation and chlorination of)
RN 125714-95-6 CAPLUS
CN Benzenepropanoic acid, 2,4-dibromo-α-(chlorocarbonyl)-5-methoxy-, ethyl ester (9CI) (CA INDEX NAME)

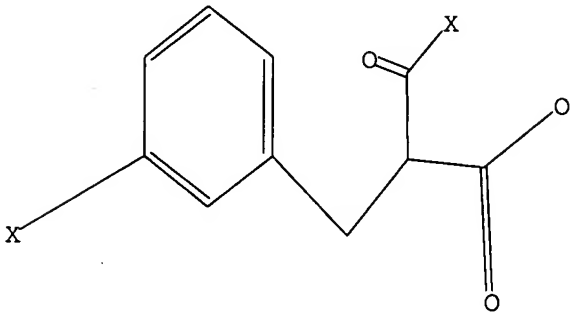


=>

=>
Uploading C:\Program Files\Stnexp\Queries\185a.str

L10 STRUCTURE UPLOADED

=> d
L10 HAS NO ANSWERS
L10 STR




Structure attributes must be viewed using STN Express query preparation.

=> s l10
SAMPLE SEARCH INITIATED 10:32:24 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s l10 full
FULL SEARCH INITIATED 10:32:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 68 TO ITERATE

100.0% PROCESSED 68 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L12 0 SEA SSS FUL L10

=>

```
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01   New pricing for the Save Answers for SciFinder Wizard within
                   STN Express with Discover!
 NEWS  4  OCT 28   KOREAPAT now available on STN
 NEWS  5  NOV 30   PHAR reloaded with additional data
 NEWS  6  DEC 01   LISA now available on STN
 NEWS  7  DEC 09   12 databases to be removed from STN on December 31, 2004
 NEWS  8  DEC 15   MEDLINE update schedule for December 2004
 NEWS  9  DEC 17   ELCOM reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  10 DEC 17   COMPUAB reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  11 DEC 17   SOLIDSTATE reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  12 DEC 17   CERAB reloaded; updating to resume; current-awareness
                   alerts (SDIs) affected
 NEWS  13 DEC 17   THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30   EPFULL: New patent full text database to be available on STN
 NEWS  15 DEC 30   CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03   No connect-hour charges in EPFULL during January and
                   February 2005
 NEWS  17 FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                   (ROSPATENT) added to list of core patent offices covered
 NEWS  18 FEB 10   STN Patent Forums to be held in March 2005
 NEWS  19 FEB 16   STN User Update to be held in conjunction with the 229th ACS
                   National Meeting on March 13, 2005

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 10:19:44 ON 28 FEB 2005

=> file caplus
```

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.21 | 0.21 |

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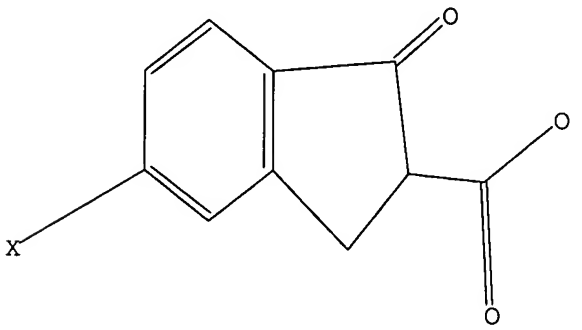
FILE COVERS 1907 - 28 Feb 2005 VOL 142 ISS 10
FILE LAST UPDATED: 27 Feb 2005 (20050227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>
Uploading C:\Program Files\Stnexp\Queries\185.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR




Structure attributes must be viewed using STN Express query preparation.

=> s l1
**REG1stRY INITIATED**
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:20:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2075 TO ITERATE

48.2% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        38768 TO    44232
PROJECTED ANSWERS:               0 TO        0

L2             0 SEA SSS SAM L1


L3             0 L2

=> s l1 full
   REGlstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.



FULL SEARCH INITIATED 10:20:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  42783 TO ITERATE

100.0% PROCESSED   42783 ITERATIONS                                 31 ANSWERS
SEARCH TIME: 00.00.01

L4             31 SEA SSS FUL L1



L5           36 L4

=> s l5 and acid halide
       3941972 ACID
        146913 HALIDE
          1932 ACID HALIDE
                 (ACID(W)HALIDE)
L6             0 L5 AND ACID HALIDE

=> s l5 and halide
        146913 HALIDE
L7             0 L5 AND HALIDE

=> s l5 and acid
       3941972 ACID
L8            25 L5 AND ACID

=> s l8 and py<2003
      22588982 PY<2003
L9            21 L8 AND PY<2003

=> d 1-10 ibiB abs hitstr

L9   ANSWER 1 OF 21  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2001:915253  CAPLUS
DOCUMENT NUMBER:          136:183796
TITLE:                    Toward the manufacture of indoxacarb
AUTHOR(S):                Shapiro, R.; Annis, G. D.; Blaisdell, C. T.; Dumas, D.
                          J.; Fuchs, J.; Griswold, S. M.; Highley, G. W., Jr.;
                          Hollinsed, W. C.; Mrowca, J. J.; Sternberg, J. A.;
                          Wojtkowski, P.
CORPORATE SOURCE:         Agricultural Products Department, Process Development
                          Group, Stine-Haskell Research Center, DuPont, Newark,
                          DE, 19714, USA
SOURCE:                   ACS Symposium Series (2002), 800(Synthesis
                          and Chemistry of Agrochemicals VI), 178-185
                          CODEN: ACSMC8; ISSN: 0097-6156
PUBLISHER:                American Chemical Society
```

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:183796
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

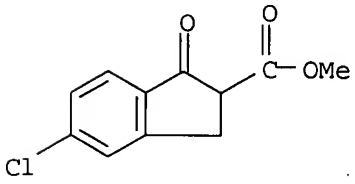
AB The discovery and development of a novel process for the preparation of (+)-indoxacarb I is described. The key step in the preparation of I is the unprecedented enantioselective hydroxylation of the methoxycarbonylindanone II with tert-Bu hydroperoxide in the presence of cinchonine to give the hydroxyindanonecarboxylate III in 50% ee. While the initial synthesis of the racemate of I used the condensation reaction of the hydrazone of racemic III with carbamoyl chloride IV followed by cyclocondensation with diethoxymethane to prepare the title compound, the enhanced solubility of nonracemic III and subsequent derivs. forced significant process refinements in the synthesis of I. Nonracemic I was ultimately prepared by condensation of III with benzyl carbazate, condensation of the benzyloxycarbonyl hydrazone with diethoxyethane in the presence of p-toluenesulfonic **acid** in toluene (with distillation of the ethanol byproduct), deprotection, and acylation with IV to provide nonracemic I; the final three steps were all performed in toluene as the solvent and gave I in 80% yield over the three steps.

IT **399572-29-3P 399572-30-6P**
RL: IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(improved toluene solubility of the triethylammonium salt of methoxycarbonylindanone intermediate over the sodium salt in preparation of racemic indoxacarb)

RN 399572-29-3 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

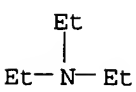
CM 1

CRN 65738-56-9
CMF C11 H9 Cl O3

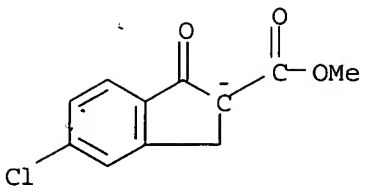



CM 2

CRN 121-44-8
CMF C6 H15 N

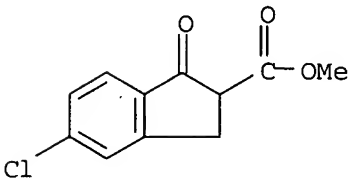



RN 399572-30-6 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester, ion(1-), sodium (9CI) (CA INDEX NAME)



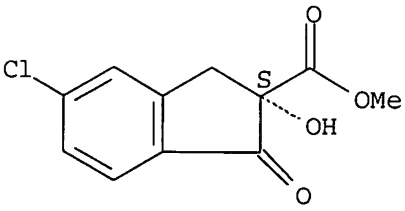
● $Na^+$

IT **65738-56-9P 173903-18-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and process refinements in preparation of nonracemic indoxacarb using cinchonine-catalyzed asym. hydroxylation of methoxycarbonylindanone as key step)
RN 65738-56-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

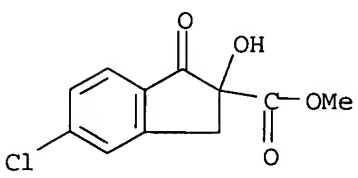


RN 173903-18-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT **144172-24-7P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for the preparation of racemic indoxacarb)
RN 144172-24-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

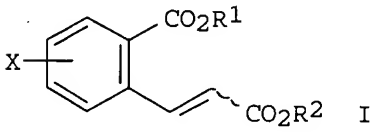
L9 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:15666 CAPLUS
DOCUMENT NUMBER: 132:49800
TITLE: Preparation of cinnamates as intermediates for indanonecarboxylates.
INVENTOR(S): Lange, Walter; Komoschinski, Joachim; Steffan, Guido; Kysela, Ernst
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger., 8 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 19837069 | C1 | 20000105 | DE 1998-19837069 | 19980817 <-- |
| CA 2340738 | AA | 20000302 | CA 1999-2340738 | 19990809 <-- |
| WO 2000010963 | A1 | 20000302 | WO 1999-EP5735 | 19990809 <-- |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 9954212 | A1 | 20000314 | AU 1999-54212 | 19990809 <-- |
| EP 1105367 | A1 | 20010613 | EP 1999-940172 | 19990809 <-- |
| EP 1105367 | B1 | 20030618 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002523392 | T2 | 20020730 | JP 2000-566237 | 19990809 <-- |
| AT 243185 | E | 20030715 | AT 1999-940172 | 19990809 |
| US 6455725 | B1 | 20020924 | US 2001-762838 | 20010213 <-- |

PRIORITY APPLN. INFO.: DE 1998-19837069 A 19980817
WO 1999-EP5735 W 19990809

OTHER SOURCE(S): MARPAT 132:49800
GI

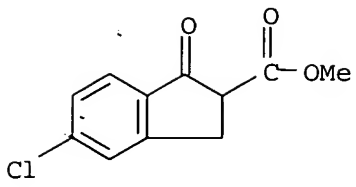


I

AB Title compds. [I; X = F, Cl, iodo; R1, R2 = H, (substituted) alkyl, PhCH2], were prepared Thus, 2-amino-4-chlorobenzoic **acid** in MeOH/H2SO4 was treated with a mixture prepared from NaNO2, MeOH, and H2O in H2SO4; amidinosulfonic **acid** was added and excess Me nitrite was blown off. Me acrylate and Pd acetylacetonate were added to give Me 4-chloro-2-(3-methoxy-3-oxo-1-propenyl)benzoate. The Pd-containing product was hydrogenated in an autoclave to give 4-chloro-2-(3-methoxy-3-oxopropyl)benzoate, which was heated with NaOMe in MeOH to give 2-methoxycarbonyl-5-chloroindan-1-one.

IT **65738-56-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of cinnamates as intermediates for indanonecarboxylates)

RN 65738-56-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:109412 CAPLUS
DOCUMENT NUMBER: 130:168398
TITLE: Preparation of fused oxadiazines.
INVENTOR(S): Annis, Gary David; McCann, Stephen Frederick; Shapiro, Rafael
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 230,568, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5869657 | A | 19990209 | US 1996-727607 | 19961016 <-- |
| CA 2188400 | AA | 19951102 | CA 1995-2188400 | 19950417 <-- |
| CN 1146205 | A | 19970326 | CN 1995-192654 | 19950417 <-- |
| CN 1059901 | B | 20001227 | | |
| HU 75052 | A2 | 19970328 | HU 1996-2885 | 19950417 <-- |
| HU 214902 | B | 19980728 | | |
| EP 1048647 | A1 | 20001102 | EP 2000-113734 | 19950417 <-- |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE, PT | | | | |
| IN 187492 | A | 20020504 | IN 1995-CA411 | 19950417 <-- |
| PT 756594 | T | 20020628 | PT 1995-915601 | 19950417 <-- |
| ES 2171537 | T3 | 20020916 | ES 1995-915601 | 19950417 <-- |
| HU 221609 | B | 20021128 | HU 1998-1346 | 19950417 <-- |
| EP 1357107 | A1 | 20031029 | EP 2003-7459 | 19950417 |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE, PT | | | | |
| IL 113412 | A1 | 20031031 | IL 1995-113412 | 19950418 |
| TW 477790 | B | 20020301 | TW 1995-84104553 | 19950508 <-- |
| AU 9852168 | A1 | 19980423 | AU 1998-52168 | 19980120 <-- |
| AU 714304 | B2 | 19991223 | | |
| US 6018071 | A | 20000125 | US 1998-165651 | 19981002 <-- |
| US 6080856 | A | 20000627 | US 1999-422631 | 19991021 <-- |
| CN 1282739 | A | 20010207 | CN 2000-103632 | 20000223 <-- |
| US 6232489 | B1 | 20010515 | US 2000-567639 | 20000509 <-- |

| PRIORITY APPLN. INFO.: | | |
|---|---|---|
| US 1994-230568 | B2 | 19940420 |
| US 1994-298909 | B2 | 19940831 |
| EP 1995-915601 | A3 | 19950417 |
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| HU 1996-2885 | A | 19950417 |
| WO 1995-US4321 | A1 | 19950417 |
| US 1996-727607 | A3 | 19961016 |
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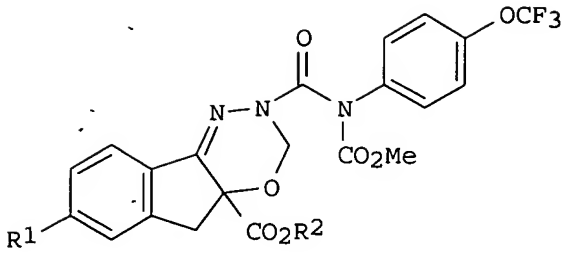
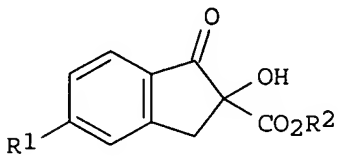
| US 1999-422631 | A3 | 19991021 |

OTHER SOURCE(S): CASREACT 130:168398; MARPAT 130:168398
GI



I



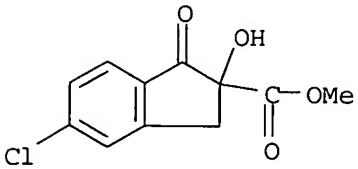
II

AB (chiral) fused oxadiazines (I; R1 = F, Cl, fluoroalkoxy; R2 = alkyl), were prepared from ketones (II; variables as above) by sequential treatment with H2NNHR3 (R3 = protecting group, e.g. CO2CH2Ph) in the presence of **acid** catalyst, cyclization with a dialkoxymethane in the presence of Lewis **acid**, hydrogenolysis, and acylation with ClCON(CO2Et)C6H4OCF3-p (III). Thus, II N2NNHCO2CH2Ph, and p-TsOH were refluxed in MeOH to give 96% phenylmethyl Z-(5-chloro-2,3-dihydro-2-hydroxy-2-methylcarbonyl-1H-inden-1-ylidene)hydrazinecarboxylate. The latter was heated with diatomaceous earth, (MeO)2CH2, and P2O5 in ClCH2CH2Cl to give 89% 4a-Me 2-phenylmethyl 7-chloroindeno[1,2-e][1,3,4]oxadiazine-2,4a(3H,5H)-dicarboxylate. This was hydrogenolyzed over Pd/C and the unisolated product was stirred with III in MeOAc/aqueous NaHCO3 to give 85% I (R1 = Cl; R2 = Me).

IT **144172-24-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of fused oxadiazines)

RN 144172-24-7 CAPLUS

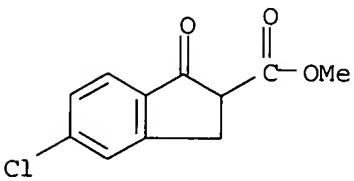
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



IT **65738-56-9P 173903-18-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fused oxadiazines)

RN 65738-56-9 CAPLUS

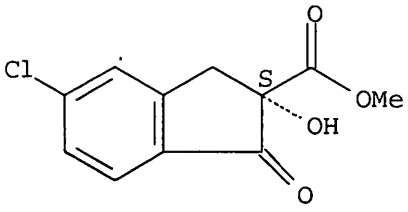
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



RN 173903-18-9 CAPLUS

CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

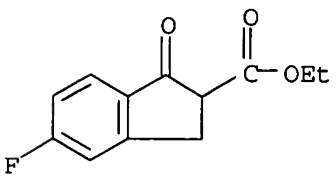



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:795156 CAPLUS
DOCUMENT NUMBER: 130:51408
TITLE: Methods and precursors for the production of chiral vicinal amino alcohols
INVENTOR(S): Rozzell, J. David, Jr.
PATENT ASSIGNEE(S): Biocatalytics, Inc., USA
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9854350 | A1 | 19981203 | WO 1998-US10792 | 19980527 <-- |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| US 5834261 | A | 19981110 | US 1997-863900 | 19970527 <-- |
| US 5942644 | A | 19990824 | US 1997-929474 | 19970915 <-- |
| EP 991772 | A1 | 20000412 | EP 1998-923813 | 19980527 <-- |
| R: CH, DE, FR, GB, IT, LI, NL | | | | |

PRIORITY APPLN. INFO.: US 1997-863900 A 19970527
US 1997-929474 A 19970915
WO 1998-US10792 W 19980527
OTHER SOURCE(S): CASREACT 130:51408; MARPAT 130:51408
AB The disclosure describes a method for the preparation of chiral vicinal aminoalcs. in high optical purity. The method combines the stereoselective reduction of the keto group of a β-keto **acid**, β-keto ester, or derivative with the stereospecific rearrangement of the corresponding amide, hydroxamic **acid**, or hydrazide to produce chiral vicinal amino alcs. with control of stereochem. at both chiral centers. The method involves novel precursor compds.
IT **149775-09-7**
RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)
(methods and precursors for the production of chiral vicinal amino alcs.)
RN 149775-09-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-fluoro-2,3-dihydro-1-oxo-, ethyl ester (9CI) (CA INDEX NAME)

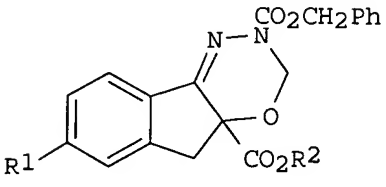


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

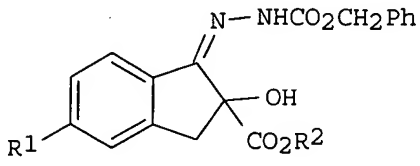
L9 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:112357 CAPLUS
DOCUMENT NUMBER: 128:167448
TITLE: Preparation of indeno[1,2-e][1,3,4]oxadiazinedicarboxylates.
INVENTOR(S): Dumas, Donald J.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA; Dumas, Donald J.
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9805656 | A1 | 19980212 | WO 1997-US13548 | 19970731 <-- |
| W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| IN 182799 | A | 19990724 | IN 1997-CA1020 | 19970602 <-- |
| ZA 9705379 | A | 19981218 | ZA 1997-5379 | 19970618 <-- |
| AU 9739038 | A1 | 19980225 | AU 1997-39038 | 19970731 <-- |
| EP 922041 | A1 | 19990616 | EP 1997-936346 | 19970731 <-- |
| R: ES, FR, IT | | | | |
| BR 9711003 | A | 19990817 | BR 1997-11003 | 19970731 <-- |
| CN 1226891 | A | 19990825 | CN 1997-196880 | 19970731 <-- |
| JP 2001501916 | T2 | 20010213 | JP 1998-508080 | 19970731 <-- |
| MX 9901054 | A | 20000131 | MX 1999-1054 | 19990128 <-- |
| US 1950 | H1 | 20010306 | US 1999-230987 | 19990203 <-- |

PRIORITY APPLN. INFO.: US 1996-22426P P 19960805
WO 1997-US13548 W 19970731
OTHER SOURCE(S): CASREACT 128:167448; MARPAT 128:167448
GI



I

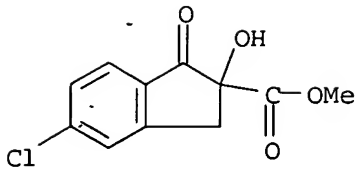


II

AB Title compds. (I; R1 = F, Cl, fluoralkoxy; R2 = alkyl) are prepared by reaction of hydrazine derivs. (II; R1, R2 as above) with ≥1 equivalent dialkoxymethane in the presence of a protic **acid** catalyst in an inert solvent under conditions which allow for the prompt removal of the alc. byproduct by distillation Thus, a slurry of p-toluenesulfonic **acid** and II (R1 = Cl; R2 = Me) was added over 2 h to a refluxing mixture of (EtO)2CH2 in PhMe with distillation of EtOH/PhMe to give 87% I (R1 = Cl; R2 = Me).

IT **144172-24-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of indeno[1,2-e][1,3,4]oxadiazinedicarboxylates)

RN 144172-24-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:754405 CAPLUS
DOCUMENT NUMBER: 126:46360
TITLE: Enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters
INVENTOR(S): Sariaslani, Fateme S.; Stieglitz, Barry; Witterholt, Vincent G.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 321,496, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5580783 | A | 19961203 | US 1995-457891 | 19950601 <-- |
| WO 9612035 | A1 | 19960425 | WO 1995-US13225 | 19951004 <-- |
| W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, US, UZ, VN | | | | |
| RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| AU 9538329 | A1 | 19960506 | AU 1995-38329 | 19951004 <-- |
| EP 786012 | A1 | 19970730 | EP 1995-936341 | 19951004 <-- |
| EP 786012 | B1 | 19981223 | | |
| R: BE, CH, DE, DK, ES, FR, GB, LI, NL | | | | |
| CN 1160421 | A | 19970924 | CN 1995-195592 | 19951004 <-- |
| JP 10507360 | T2 | 19980721 | JP 1995-513397 | 19951004 <-- |
| ES 2128093 | T3 | 19990501 | ES 1995-936341 | 19951004 <-- |
| ZA 9508612 | A | 19970414 | ZA 1995-8612 | 19951012 <-- |
| IL 115594 | A1 | 20000131 | IL 1995-115594 | 19951012 <-- |

PRIORITY APPLN. INFO.:

| | | |
|---|---|---|
| US 1994-321496 | B2 | 19941012 |
| US 1995-457891 | A2 | 19950601 |
| WO 1995-US13225 | W | 19951004 |

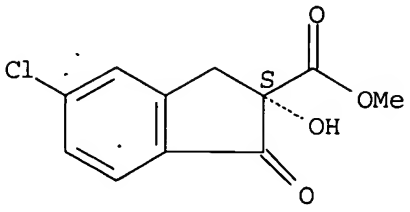
OTHER SOURCE(S): MARPAT 126:46360

AB This invention provides a process for enrichment of enantiomers of α-tertiary carboxylic **acid** esters from mixts. of corresponding esters using a biocatalyst comprising microbial cells or partially or highly purified enzyme prepns. The enantiomeric ester products are useful as intermediates for the preparation of pharmaceutically and agriculturally active compds.

IT **173903-18-9P**, 1H-Indene-2-carboxylic **acid**, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (+)-
**177746-84-8P**, 1H-Indene-2-carboxylic **acid**, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (-)-
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters)

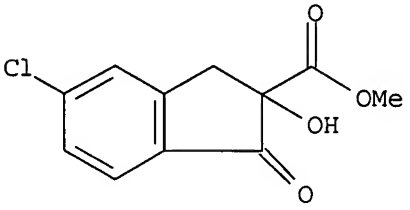
RN 173903-18-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

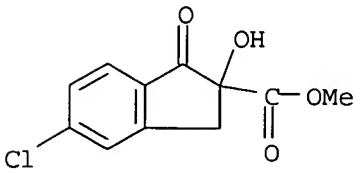



RN 177746-84-8 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (-)- (9CI) (CA INDEX NAME)

Rotation (-).




IT **144172-24-7**
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters)
RN 144172-24-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




L9 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:365854 CAPLUS
DOCUMENT NUMBER: 125:32081
TITLE: Enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters
INVENTOR(S): Sariaslani, Fateme Sima; Stieglitz, Barry; Witterholt, Vincent G.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9612035 | A1 | 19960425 | WO 1995-US13225 | 19951004 <-- |

W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, US, UZ, VN
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,

SN, TD, TG

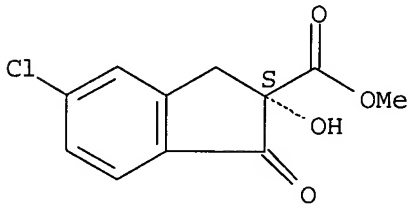
| | | | | | |
|---|---|---|---|---|---|
| US 5580783 | A | 19961203 | US 1995-457891 | | 19950601 <-- |
| AU 9538329 | A1 | 19960506 | AU 1995-38329 | | 19951004 <-- |
| EP 786012 | A1 | 19970730 | EP 1995-936341 | | 19951004 <-- |
| EP 786012 | B1 | 19981223 | | | |
| R: BE, CH, DE, DK, ES, FR, GB, LI, NL | | | | | |
| JP 10507360 | T2 | 19980721 | JP 1995-513397 | | 19951004 <-- |
| PRIORITY APPLN. INFO.: | | | US 1994-321496 | A2 | 19941012 |
| | | | US 1995-457891 | A2 | 19950601 |
| | | | WO 1995-US13225 | W | 19951004 |

AB This invention provides a process for enrichment of enantiomers of α-tertiary carboxylic **acid** esters from mixts. of corresponding esters using a biocatalyst comprising microbial cells, or partially or highly purified enzyme prepns. The enantiomeric ester products are useful as intermediates for the preparation of pharmaceutically and agriculturally active compds.

IT **173903-18-9P 177746-84-8P**
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters)

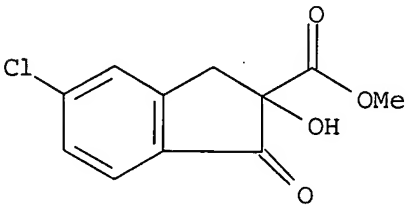
RN 173903-18-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



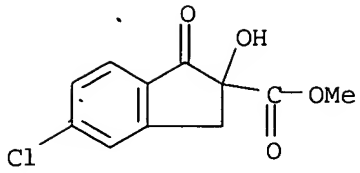

RN 177746-84-8 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester, (-)- (9CI) (CA INDEX NAME)

Rotation (-).




IT **144172-24-7P**
RL: BPR (Biological process); BSU (Biological study, unclassified); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(enzymic process for the preparation of chiral α-tertiary carboxylic **acid** esters)

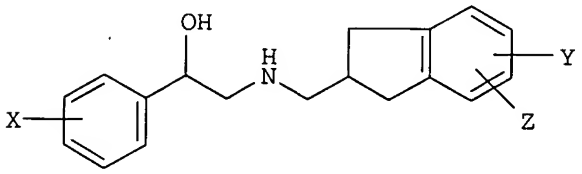
RN 144172-24-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



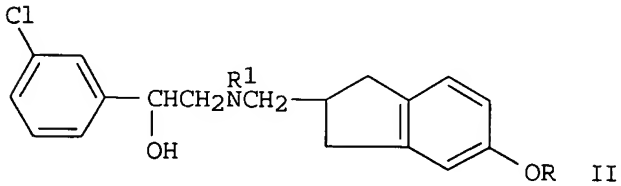
L9 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:858527 CAPLUS
DOCUMENT NUMBER: 123:256333
TITLE: Preparation of novel 2-amino-1-phenylethanol compounds with activity for regulating gastrointestinal tract movement
INVENTOR(S): Tsuchiya, Susumu; Hiratsuka, Kozo; Fukuzaki, Atsushi; Takenawa, Noriko; Osaka, Kazuya; Miura, Yasuyuki
PATENT ASSIGNEE(S): Tokyo Tanabe Co. Ltd., Japan
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE | |
|---|---|---|---|---|---|---|
| WO 9508527 | A1 | 19950330 | WO 1994-JP1551 | | 19940921 | <-- |
| W: AU, CA, JP, KR, US | | | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | | | |
| AU 9476658 | A1 | 19950410 | AU 1994-76658 | | 19940921 | <-- |
| PRIORITY APPLN. INFO.: | | | JP 1993-236562 | A | 19930922 | |
| | | | JP 1994-93627 | A | 19940506 | |
| | | | WO 1994-JP1551 | W | 19940921 | |

OTHER SOURCE(S): MARPAT 123:256333
GI



I



II

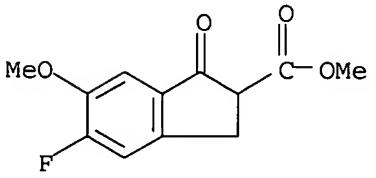
AB Novel N-indanylmethyl-2-amino-1-phenylethanol compds. represent by general formula [I; X = H, halo, CF3; Y, Z = H, HO, lower alkoxy, MeO having a linear or branched C1-3 alkylene chain which may be substituted by lower alkoxycarbonyl, EtO which may be substituted at the 2-position, or a group represent OCH2COA; wherein A = lower alkyl, Ph, cyclic amino or an amino group represented by NVW (wherein V, W = H or lower alkyl); provided that Y and Z may be adjacent to each other and combined together to represent OC(BB)O (wherein B = CO2H or lower alkoxycarbonyl)] or pharmacol. acceptable salts thereof, useful for treating or preventing exacerbation of gastrointestinal tract movement, are prepared Thus, (5-methoxyindan-2-ylmethyl)amine was condensed with m-chloromandelic **acid** by using BOP and Et3N in CH2Cl2 to give N-(5-methoxyindan-2-ylmethyl)-3-chloromandelamide which was reduced by Me2S.BH3 in refluxing THF to

N-(indanylmethyl)phenylaminoethanol (II; R = Me, R1 = H). The latter compound was treated with BBr3 in CH2Cl2 at -40° to room temperature to give II (R = R1 = H) which was acylated by di-tert-Bu dicarbonate in DMF containing Et3N to give II (R = H, R1 = CO2CMe3). This was refluxed with Et bromoacetate and K2CO3 in acetone and treated with a saturated methanolic HCl solution and then with a saturated NaHCO3 to give II (R = CH2CO2Et, R1 = H). (1R,2'S)- and (1R,2'R)-II.HCl (CH2CONHEt, R1 = H) at 10 mg/kg p.o. inhibited 100% diarrhea induced by water-emersion of bound rats.

IT **169031-93-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate for preparation of [(indanylmethyl)amino]phenylethanol derivs. for regulating gastrointestinal tract movement)

RN 169031-93-0 CAPLUS

CN 1H-Indene-2-carboxylic acid, 5-fluoro-2,3-dihydro-6-methoxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:695929 CAPLUS
DOCUMENT NUMBER: 123:83378
TITLE: Arthropodicidal fused tetrahydropyridazines
INVENTOR(S): Harrison, Charles R.; Lahm, George P.; Stevenson, Thomas M.
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 52 pp. Cont.-in-part of U.S. Ser. No. 570,103, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5380718 | A | 19950110 | US 1992-945965 | 19921112 <-- |
| WO 9117983 | A1 | 19911128 | WO 1991-US2836 | 19910430 <-- |
| W: AU, BB, BG, BR, CA, FI, HU, JP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US | | | | |
| RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG | | | | |
| ZA 9103549 | A | 19921230 | ZA 1991-3549 | 19910510 <-- |
| US 5591729 | A | 19970107 | US 1995-368566 | 19950104 <-- |

PRIORITY APPLN. INFO.:

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|---|---|---|
| US 1990-523697 | B2 | 19900515 |
| US 1990-570103 | B2 | 19900817 |
| WO 1991-US2836 | W | 19910430 |
| US 1992-945965 | A3 | 19921112 |

OTHER SOURCE(S): MARPAT 123:83378
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

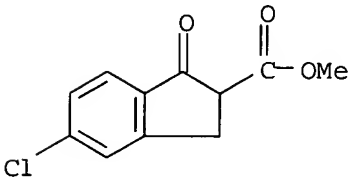
AB Arthropodicidal tetrahydropyridazines of formulas QC(:X)NYG and ZC(X1):NG where Q is selected from the group I-VI, A and E are taken together to form V; V is selected from, e.g., CH2, CH2CH2, O, S, SO, SO2; G is selected from the group VII-XV; X = O, S, NX2; X1 = e.g., Cl, Br, OR12; X2

= e.g., R12, OH, OR12; Y = e.g., H, C1-6 alkyl, benzyl optionally substituted by W; R1, R2 = e.g., H, C1-6 alkyl, C1-6 haloalkyl; R3 = e.g., H, J, N3; J = e.g., pyridyl, thienyl, furanyl; R4 = e.g., H, halo, C1-6-alkyl; R5, R7 = H, C1-2 alkyl; R6 = e.g., H, C1-6 alkyl; R4R5 and R6R7 can = :O; R8 = H, C1-2 alkyl; R9 = H, C1-2 alkyl, C1-2 alkylcarbonyl; R10 = e.g., H, C1-4 alkyl, C1-4 haloalkyl; R12 =thus e.g., C1-3 alkyl, benzyl; W = e.g., halo, CN, NO2; m = 1 to 3; n = 1 to 3; u = 1 or 2; Z = C or N. Thus, e.g., reaction of 2,4,4a,5-tetrahydro-3H-indeno[1,2-c]pyridazin-3-one (preparation given) with α,α,α-trifluoro-p-tolyl isocyanate afforded tetrahydropyridazine XVI which demonstrated greater than or equal to 80% mortality against fall armyworm, southern corn rootworm, and boll weevil.

IT **65738-56-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(arthropodicidal fused tetrahydropyridazines)

RN 65738-56-9 CAPLUS

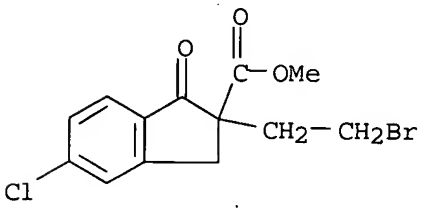
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




IT **139991-92-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(arthropodicidal fused tetrahydropyridazines)

RN 139991-92-7 CAPLUS

CN 1H-Indene-2-carboxylic acid, 2-(2-bromoethyl)-5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




L9 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:134276 CAPLUS
DOCUMENT NUMBER: 120:134276
TITLE: Agrochemical arthropodicidal amides
INVENTOR(S): Amoo, Victor Ekow; Annis, Gary David; March, Robert William, Jr.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9319045 | A1 | 19930930 | WO 1993-US2434 | 19930318 <-- |

W: AU, BR, BG, BR, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG

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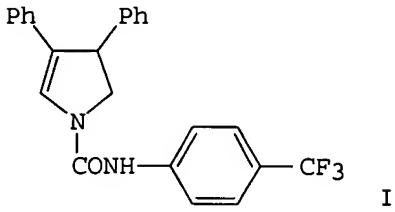
| AU 9338118 | A1 | 19931021 | AU 1993-38118 | 19930318 | <-- |
| EP 632803 | A1 | 19950111 | EP 1993-907555 | 19930318 | <-- |
| EP 632803 | B1 | 19981209 | | | |
| R: ES, FR, IT | | | | | |
| JP 07507276 | T2 | 19950810 | JP 1993-516702 | 19930318 | <-- |
| JP 3446052 | B2 | 20030916 | | | |
| BR 9306225 | A | 19980630 | BR 1993-6225 | 19930318 | <-- |
| ES 2127270 | T3 | 19990416 | ES 1993-907555 | 19930318 | <-- |
| CN 1098093 | A | 19950201 | CN 1993-116861 | 19930726 | <-- |
| US 5514678 | A | 19960507 | US 1994-307572 | 19940922 | <-- |
| PRIORITY APPLN. INFO.: | | | US 1992-858205 | A2 19920326 | |
| | | | US 1992-875174 | A2 19920428 | |
| | | | WO 1993-US2434 | A 19930318 | |

OTHER SOURCE(S): MARPAT 120:134276

GI



I

AB The title compds. QC(:X)N(Y)G [G = (un)substituted pyridyl, (un)substituted Ph, (un)substituted cyclohexyl, (un)substituted piperidino; Q = phenyldihydropyrrolyl, phenylheterocyclyl, etc.; X = O, S; Y = H, C1-6 alkyl, PhCH2, C2-6 alkenyl, C2-6 alkynyl, etc.], useful for the control of arthropods in both agronomic and nonagronomic environments, are prepared and their activity is demonstrated against a wide variety of arthropod species. Thus, dihydropyrrole I (m.p. 200-201°) was prepared

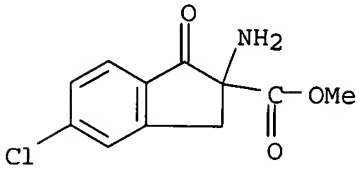
IT **144526-56-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of agrochem. arthropodicidal amides)

RN 144526-56-7 CAPLUS

CN 1H-Indene-2-carboxylic acid, 2-amino-5-chloro-2,3-dihydro-1-oxo-, methyl ester, hydrochloride (9CI) (CA INDEX NAME)



● HCl

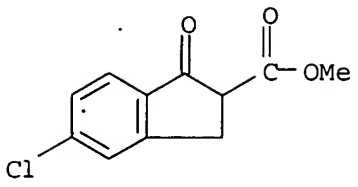
IT **65738-56-9**

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in preparation of agrochem. arthropodicidal amides)

RN 65738-56-9 CAPLUS

CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
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| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -7.30 | -7.30 |

FILE 'STNGUIDE' ENTERED AT 10:24:18 ON 28 FEB 2005
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COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Feb 25, 2005 (20050225/UP).

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 0.18 | 225.05 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
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| CA SUBSCRIBER PRICE | 0.00 | -7.30 |

FILE 'CAPLUS' ENTERED AT 10:26:03 ON 28 FEB 2005
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.


FILE COVERS 1907 - 28 Feb 2005 VOL 142 ISS 10
FILE LAST UPDATED: 27 Feb 2005 (20050227/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 11-20 ibiB abs hitstr

L9 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:559796 CAPLUS
DOCUMENT NUMBER: 119:159796
TITLE: Central cholinergic agents. IV. Synthesis and acetylcholinesterase inhibitory activities of ω-[N-ethyl-N-(phenylmethyl)amino]-1-phenyl-1-alkanones and their analogs with partial

conformational restriction

AUTHOR(S): Ishihara, Yuji; Miyamoto, Masaomi; Nakayama, Takahiro; Goto, Giichi

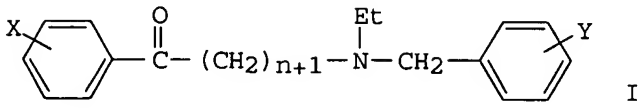
CORPORATE SOURCE: Pharm. Res. Div., Takeda Chem. Ind. Ltd., Osaka, 532, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (**1993**), 41(3), 529-38
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



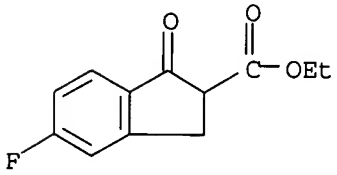
I

AB Inhibitors of acetylcholinesterase (AChE) have been designed based on a working hypothesis of the enzyme's active site. These compds., [N-ethyl-N-(phenylamino)]phenylalkanones I [X = 3,4-(OMe)2, 4-pyrrolidino, Y = 2-, 3-, 4-OMe, H, n = 3-6], were tested for their inhibitory activities on AChE and were found to be potent inhibitors. Various analogs of I were prepared to study the effect on AChE inhibition of partial restriction of conformation. Alkylation of RC6H4COCH2CO2Et [R = 4-F, 3,4-(OMe)2} with Br(CH2)nBr gave RC6H4COCH2(CO2Et)(CH2)nBr which were aminated with YC6H4CH2NHEt to give I [X = 3,4-(OMe)2, Y = 2-OMe, n = 5, 4; X = 4-F, Y = 2-OMe, H, n = 4] (II). II (X = 4-F, Y = 2-OMe, H, n =4) were treated with pyrrolidine to give the corresponding pyrrolidino derivs. Compds. with potent AChE inhibition were further evaluated in terms of central selectivity: the ratio of central action (ameliorating effect on scopolamine-induced memory impairment using a T-maze alternation task) to peripheral action.

IT **149775-09-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of)

RN 149775-09-7 CAPLUS

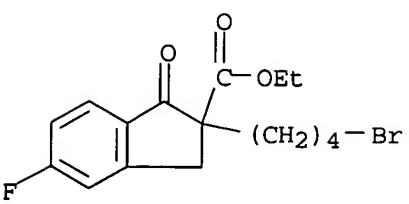
CN 1H-Indene-2-carboxylic acid, 5-fluoro-2,3-dihydro-1-oxo-, ethyl ester (9CI) (CA INDEX NAME)



IT **132219-06-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and amination of)

RN 132219-06-8 CAPLUS

CN 1H-Indene-2-carboxylic acid, 2-(4-bromobutyl)-5-fluoro-2,3-dihydro-1-oxo-, ethyl ester (9CI) (CA INDEX NAME)



L9 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:634026 CAPLUS
DOCUMENT NUMBER: 117:234026
TITLE: Preparation of indenooxadiazinecarboxamides as arthropodicides
INVENTOR(S): Annis, Gary David; Barnette, William Eldo; McCann, Stephen Frederick; Wing, Keith Dumont
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 351 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9211249 | A1 | 19920709 | WO 1991-US9164 | 19911217 <-- |
| W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, SD, SU, US | | | | |
| RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG | | | | |
| CA 2098612 | AA | 19920622 | CA 1991-2098612 | 19911217 <-- |
| CA 2098612 | C | 20020507 | | |
| AU 9191270 | A1 | 19920722 | AU 1991-91270 | 19911217 <-- |
| AU 659121 | B2 | 19950511 | | |
| EP 565574 | A1 | 19931020 | EP 1992-902235 | 19911217 <-- |
| EP 565574 | B1 | 19950802 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE | | | | |
| HU 65223 | A2 | 19940502 | HU 1993-1808 | 19911217 <-- |
| HU 213635 | B | 19970828 | | |
| JP 06504777 | T2 | 19940602 | JP 1991-502714 | 19911217 <-- |
| BR 9107246 | A | 19940614 | BR 1991-7246 | 19911217 <-- |
| ES 2077392 | T3 | 19951116 | ES 1992-902235 | 19911217 <-- |
| RU 2096409 | C1 | 19971120 | RU 1991-5011055 | 19911217 <-- |
| ZA 9110002 | A | 19930621 | ZA 1991-10002 | 19911219 <-- |
| IL 100429 | A1 | 19960119 | IL 1991-100429 | 19911219 <-- |
| CN 1062726 | A | 19920715 | CN 1991-111730 | 19911221 <-- |
| CN 1034468 | B | 19970409 | | |
| US 5462938 | A | 19951031 | US 1993-75534 | 19930618 <-- |
| US 5708170 | A | 19980113 | US 1995-448086 | 19950523 <-- |

PRIORITY APPLN. INFO.:

| | | |
|---|---|---|
| US 1990-632438 | A2 | 19901221 |
| US 1991-714401 | A2 | 19910611 |
| WO 1991-US9164 | A | 19911217 |
| US 1993-75534 | A3 | 19930618 |

OTHER SOURCE(S): MARPAT 117:234026
GI

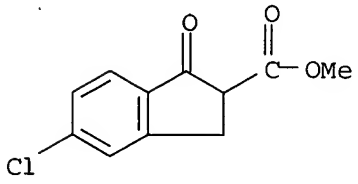
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. QC(:X)NYG and QX1C:NG [I and II; Q = Q1, Q2, etc.; A = H; E = H, C1-3 alkyl or AE = CH2, CH2CH2, O, S, SO, SO2, OCH2, SCH2, etc.; G = (substituted) Ph, -pyridyl, -pyrimidyl, -thienyl, etc.; X = O, S, NX2; X1 = Cl, Br, OR8, SR8, NR8R9; X2 = R8, OH, OR8, cyano, SO2R8, SO2Ph, etc.; Y = H, C1-6 (halo)alkyl, CH2Ph, C2-6 alkoxyalkyl, C2-6 alkenyl, C2-6 alkynyl, C1-3 alkoxy, cyano, NO2, (substituted) Ph, etc.; Z = C, N; Z1 = O, S, NR31; R2 = H, (substituted) C1-6 alkyl, C2-6 (halo) alkenyl, C2-6 (halo)alkynyl, C3-6 (halo)cycloalkyl, halo, cyano, N3, etc. or R2R2 = OCH2O, OCF2O, OCH2CH2O, etc.; R3 = H, N3, NO2, halo, C1-6 (halo) alkyl, C2-6 alkenyl, (substituted) Ph, etc.; R4, R5 = H, C1-4 alkyl, etc.; R4R5 = O, S; R8 = (substituted) C1-3 alkyl, C2-4 (halo)alkenyl, (substituted) benzyl, etc.; R9 = H, C1-4 alkyl, C1-4 haloalkyl, C2-4 alkoxycarbonyl, (substituted) Ph, -pyridyl or R8R9 = (CH2)4, (CH2)5, etc.; R31 = H, C1-4 alkyl, C2-4 alkanoyl, C2-4 alkoxycarbonyl] were prepared for use in

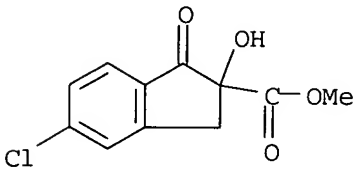
controlling anthropods, e.g. insects, pests, acari, etc. Thus, 5-chloro-2-(4-chlorophenyl)-2,3-dihydro-2-hydroxy-1H-inden-1-one (preparation given) was treated with hydrazine then 4-CF3C6H4NCO to give hydrazinecarboxamide III. The latter was cyclized with CH2O and TosOH to give title compound IV. IV at 0.55 kg/ha gave ≥80% control of Spodoptera fruigiperda on wheat germ.

IT **65738-56-9P 144172-24-7P 144526-56-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for arthropodicides)

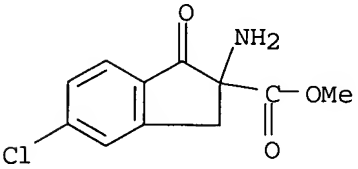
RN 65738-56-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




RN 144172-24-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-2-hydroxy-1-oxo-, methyl ester (9CI) (CA INDEX NAME)




RN 144526-56-7 CAPLUS
CN 1H-Indene-2-carboxylic acid, 2-amino-5-chloro-2,3-dihydro-1-oxo-, methyl ester, hydrochloride (9CI) (CA INDEX NAME)




● HCl

L9 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:531213 CAPLUS
DOCUMENT NUMBER: 117:131213
TITLE: Preparation of dihydropyridazinones and related compounds as fungicides
INVENTOR(S): Egan, Anne Ritchie; Michelotti, Enrique Luis; Ross, Ronald, Jr.; Wilson, Willie Joe
PATENT ASSIGNEE(S): Rohm and Haas Co., USA
SOURCE: Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 478195 | A1 | 19920401 | EP 1991-308404 | 19910913 <-- |
| EP 478195 | B1 | 19990526 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| AT 180475 | E | 19990615 | AT 1991-308404 | 19910913 <-- |
| ES 2131506 | T3 | 19990801 | ES 1991-308404 | 19910913 <-- |
| CA 2051471 | AA | 19920322 | CA 1991-2051471 | 19910916 <-- |
| AU 9184602 | A1 | 19920326 | AU 1991-84602 | 19910919 <-- |
| AU 651375 | B2 | 19940721 | | |
| ZA 9107466 | A | 19920527 | ZA 1991-7466 | 19910919 <-- |
| HU 59379 | A2 | 19920528 | HU 1991-3020 | 19910920 <-- |
| BR 9104043 | A | 19920602 | BR 1991-4043 | 19910920 <-- |
| JP 05025164 | A2 | 19930202 | JP 1991-241806 | 19910920 <-- |
| JP 3166782 | B2 | 20010514 | | |
| KR 204381 | B1 | 19990615 | KR 1991-16465 | 19910920 <-- |
| IL 99542 | A1 | 20010111 | IL 1991-99542 | 19910920 <-- |
| JP 2001139553 | A2 | 20010522 | JP 2000-341752 | 19910920 <-- |
| JP 3408790 | B2 | 20030519 | | |
| JP 2001181261 | A2 | 20010703 | JP 2000-342924 | 19910920 <-- |
| JP 3408791 | B2 | 20030519 | | |
| CN 1069729 | A | 19930310 | CN 1991-110000 | 19911028 <-- |
| CN 1038249 | B | 19980506 | | |
| JP 05286944 | A2 | 19931102 | JP 1992-62341 | 19920318 <-- |
| JP 3242140 | B2 | 20011225 | | |
| US 5552409 | A | 19960903 | US 1994-221229 | 19940331 <-- |
| US 5631254 | A | 19970520 | US 1995-467384 | 19950606 <-- |
| US 5753642 | A | 19980519 | US 1995-462472 | 19950606 <-- |
| US 5726176 | A | 19980310 | US 1996-740546 | 19961030 <-- |
| US 5726162 | A | 19980310 | US 1996-741248 | 19961030 <-- |
| US 5728698 | A | 19980317 | US 1996-740548 | 19961030 <-- |
| US 5728694 | A | 19980317 | US 1996-740549 | 19961030 <-- |
| US 5728715 | A | 19980317 | US 1996-741249 | 19961030 <-- |
| JP 2001172264 | A2 | 20010626 | JP 2000-342863 | 20001110 <-- |
| JP 3364205 | B2 | 20030108 | | |

PRIORITY APPLN. INFO.:

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|---|---|---|
| US 1990-586633 | A | 19900921 |
| US 1991-749576 | A | 19910828 |
| JP 1991-241806 | A3 | 19910920 |
| JP 1992-62341 | A | 19920318 |
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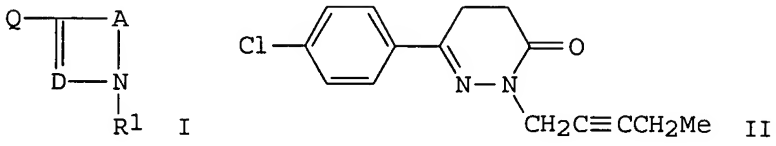
| US 1995-467384 | A3 | 19950606 |

OTHER SOURCE(S): MARPAT 117:131213

GI

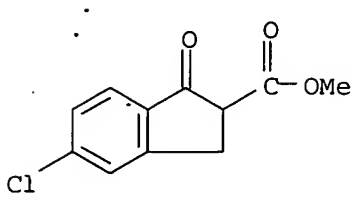



AB Title compds. I [A = (CHR2)nCHR7Z, (CHR2)nOZ, (CHR2)nSZ, OCHR7Z, etc.; n = 0-2; D = N, CR2; Q = (substituted) Ph, -naphthyl, -styryl, -pyridyl, -quinolyl, -indolyl, etc.; Z = CO, C:S; R1 = (substituted) alkyl, -alkynyl, -alkenyl, Ph, etc.; R2 = H, C1-3 alkyl, Ph, halo; R7 = R2, alkenylalkenyl, alkynyl, dialkynyl, halolkynyl, alkenylalkynyl; or R2 and R7 form fused Ph ring, etc., with provisos] were prepared as medical and agrochem. fungicides. Thus, 3-(4-chlorobenzoyl)propionic **acid** (preparation given) in absolute EtOH was refluxed for 3 h with hydrazine and the dihydropyridazinone formed was N-alkynylated by 1-bromopent-2-yne to give title compound II. II at 200 ppm gave 99% control of Pyricularia oryzae on rice and at 100 ppm gave 100% control of Candida albicans.

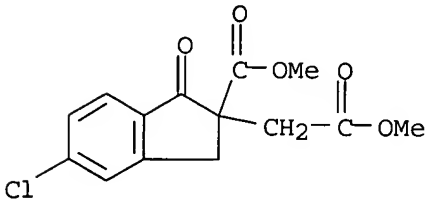
IT **65738-56-9P 142048-58-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for fungicides)

RN 65738-56-9 CAPLUS

CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



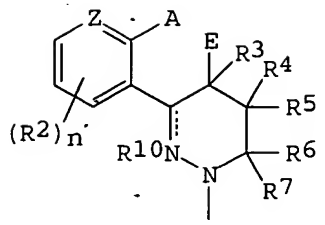

RN 142048-58-6 CAPLUS
CN 1H-Indene-2-acetic acid, 5-chloro-2,3-dihydro-2-(methoxycarbonyl)-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



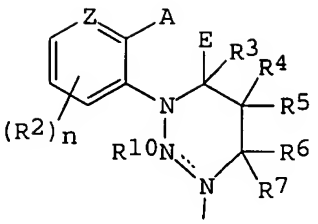

L9 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:214518 CAPLUS
DOCUMENT NUMBER: 116:214518
TITLE: Preparation of arthropodicidal tetrahydropyridazinecarboxamides
INVENTOR(S): Harrison, Charles Richard; Lahm, George Philip; Stevenson, Thomas Martin
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 166 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9117983 | A1 | 19911128 | WO 1991-US2836 | 19910430 <-- |
| W: AU, BB, BG, BR, CA, FI, HU, JP, KR, LK, MC, MG, MW, NO, PL, RO, SD, SU, US | | | | |
| RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG | | | | |
| AU 9178846 | A1 | 19911210 | AU 1991-78846 | 19910430 <-- |
| EP 530264 | A1 | 19930310 | EP 1991-909859 | 19910430 <-- |
| EP 530264 | B1 | 19961023 | | |
| R: DE, ES, FR, GB, IT | | | | |
| JP 05507087 | T2 | 19931014 | JP 1991-509824 | 19910430 <-- |
| JP 3030081 | B2 | 20000410 | | |
| CN 1057258 | A | 19911225 | CN 1991-103767 | 19910510 <-- |
| ZA 9103549 | A | 19921230 | ZA 1991-3549 | 19910510 <-- |
| US 5380718 | A | 19950110 | US 1992-945965 | 19921112 <-- |
| PRIORITY APPLN. INFO.: | | | US 1990-523697 A2 | 19900515 |
| | | | US 1990-570103 A2 | 19900817 |
| | | | WO 1991-US2836 A | 19910430 |

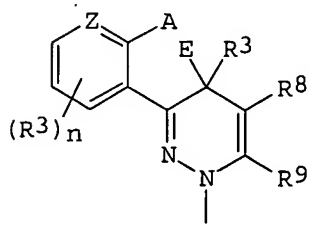
OTHER SOURCE(S): MARPAT 116:214518
GI



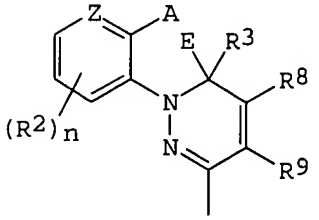
Q1



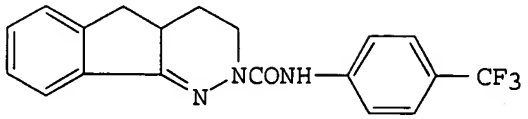
Q2



Q3



Q4



I

AB Title compds. QC(:X)NYG and QC(X1):NG [Q = Q1, Q2, Q3, Q4, wherein A = H; E = H, C1-3 alkyl, AE = V, V = (substituted) CH2, (substituted) CH2CH2, O, S, SO, etc.; G = (substituted) heterocyclyl, (substituted) (phenyl) alkyl; X = O, S, X2N, X2 = (substituted) C1-3 alkyl, (substituted) PhCH2, C2-4 haloalkyl, (substituted) C3-6 cycloalkyl, HO, etc.; X1 = Br, Cl, etc.; Y = H, C1-6 alkyl, (substituted) PhCH2, CHO, C2-6 alkoxyalkyl, etc.; R2 = H, C1-6 alkyl, C1-6 haloalkyl, C2-6 alkenyl, etc.; R3 = H, N3, O2N, halo, C1-6 alkyl, C2-6 alkenyl, heterocyclyl, etc.; R4 = H, halo, C1-6 alkyl, Ph, pyridyl, etc.; R5, R7 = H, C1-2 alkyl; R6 = H, C1-6 alkyl, (substituted) Ph, (substituted) pyridyl, C1-3-alkyl-O2C; R4R5 = R6R7 = O; R8 = R5; R9 = H, C1-2 alkyl, C1-2 alkylcarbonyl; Z = C, N; n = 1-3; if dotted line = bond; R10 is absent, if dotted line is absent, R10 = H, (halo substituted) alkyl, alkylcarbonyl, cycloalkyl, alkylsulfonyl, SO2Ph] are prepared To aqueous H2SO4 was added NaIO4 followed by tartaric **acid**, and then 1-indanone and aqueous NaOH to give (2,3-dihydro-1-oxo-1-indenylidene)acetic **acid**, which was treated with Zn dust suspended in HOAc to give 2,3-dihydro-1-oxo-1H-indene-2-acetic **acid**. This was treated with H2NNH2.H2O in EtOH and refluxed for 18 h to give 2,4,4a,5-tetrahydro-3H-indeno[1,2-c]pyridazin-3-one which was treated with LiAlH4 in THF, refluxed for 1 h, worked up, and treated with p-CF3C6H4NCO to give the title pyridazinecarboxamide I. The title compds. can be formulated with insecticides, fungicides, nematocides and acaricides. Application of I at 0.55 kg/ha resulted in ≥80% mortality of fall armyworm, southern corn rootworm, and boll weevil. Addition title compds. were prepared and found active.

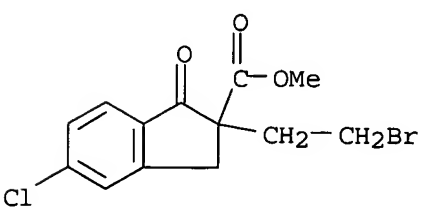
IT **139991-92-7P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

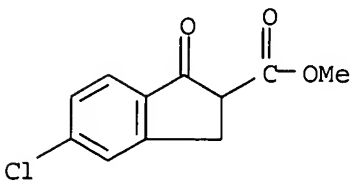
(preparation and reaction of, in preparation of insecticides)

RN 139991-92-7 CAPLUS

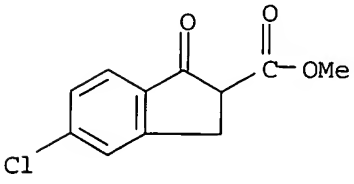
CN 1H-Indene-2-carboxylic acid, 2-(2-bromoethyl)-5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)



IT **65738-56-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of insecticides)
RN 65738-56-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

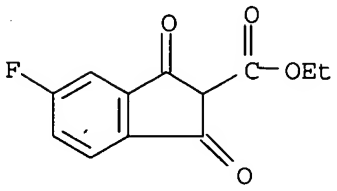



L9 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1978:104975 CAPLUS
DOCUMENT NUMBER: 88:104975
TITLE: Potential hypocholesteremic derivatives of styrylacetic **acid**. II: cis- and trans-3-Methyl-4-phenyl-3-butenoic **acid** analogs
AUTHOR(S): Stratford, E. S.; Smith, L. M.; Tomecko, G. W.
CORPORATE SOURCE: Sch. Pharm., Univ. Connecticut, Storrs, CT, USA
SOURCE: Journal of Pharmaceutical Sciences (**1978**), 67(1), 80-3
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis and testing for in vitro cholesterol biosynthesis inhibitory activity of 2-indeneacetic **acid**, 2-methyl-1,2-dihydro-2-naphthoic **acid**, and their 5- and 7-chloro derivs., resp., are described. These compds. were prepared as trans- and cis analogs of antilipemic 3-methyl-4-phenyl-3-butenoic **acid**. Both series of compds. showed cholesterol biosynthesis inhibitory properties, but Cl substitution enhanced potency only in the cis-system. The findings were discussed in terms of a relationship between the cis compds. and clofibrate-type antilipemic agents.
IT **65738-56-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with Et bromoacetate)
RN 65738-56-9 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-chloro-2,3-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

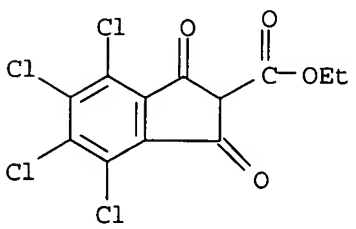



L9 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:86232 CAPLUS
DOCUMENT NUMBER: 82:86232
TITLE: 5-Fluoro-1,3-indandione derivatives of 5-iodo- and 5-fluoro-1,3-indandiones
AUTHOR(S): Cema, G.; Grinsteins, V.; Kalejs, U.
CORPORATE SOURCE: Latv. Gos. Univ. im. Stucka, Riga, USSR
SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (**1974**), (6), 711-18
CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Condensation of 4-fluorophthalic anhydride with MeCOCH2CO2Et gave 88.5% **acid** I, which was decarboxylated to give 63.6% 5-fluoro-1,3-indandione (II). Bromination of II gave 48% 2,2-dibromo-5-fluoro-1,3-indandione. 2-Nitroso-5-fluoro-1,3-indandione was prepared by treatment of II with NaOH followed by NaNO2 and 20% H2SO4. 2-Nitro-5-fluoro-1,3-indandione was prepared in 69.1% yield by nitration of II. Reaction of II with p-RC6H4CHO (R = NO, Cl, Br, MeO, Me2N, Et2N) gave the arylideneindandiones III. Similar derivs. of 5-iodoindandione were prepared
IT **54746-56-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54746-56-4 CAPLUS
CN 1H-Indene-2-carboxylic acid, 5-fluoro-2,3-dihydro-1,3-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



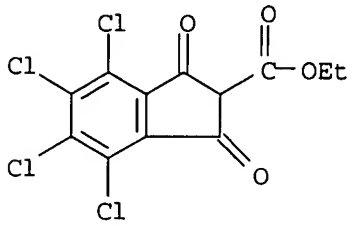
L9 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:53310 CAPLUS
DOCUMENT NUMBER: 74:53310
TITLE: Condensation of dicarboxylic **acid** anhydrides with compounds containing active methylene groups. XV. Condensation of tetrachloro- and tetrabromophthalic anhydrides with acetoacetate
AUTHOR(S): Rotbergs, J.; Dervanika, I. D.; Oskaja, V.
CORPORATE SOURCE: Latv. Gos. Univ. im. Stucki, Riga, USSR
SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (**1970**), (6), 699-703
CODEN: LZAKAM; ISSN: 0002-3248
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB I (R = Cl, Br; X = O) condensed with AcCH2CO2Et in Ac2O containing Et3N, forming the corresponding I (X = CHCO2Et) (II). Heating II with Ac2O containing H2SO4 gave I (X = CH2) (III). I (X = C:CHC6H4R'-p where R' = H, NO2) and IV were prepared from III by treatment with R'C6H4CHO and HONH.HCl, resp.
IT **30575-67-8P 30575-68-9P 30575-69-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 30575-67-8 CAPLUS
CN 1H-Indene-2-carboxylic acid, 4,5,6,7-tetrachloro-2,3-dihydro-1,3-dioxo-, ethyl ester (9CI) (CA INDEX NAME)



RN 30575-68-9 CAPLUS
CN 2-Indancarboxylic acid, 4,5,6,7-tetrachloro-1,3-dioxo-, ethyl ester, compd. with triethylamine (1:1) (8CI) (CA INDEX NAME)

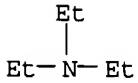
CM 1

CRN 30575-67-8
CMF C12 H6 Cl4 O4

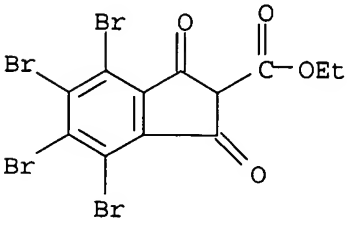


CM 2

CRN 121-44-8
CMF C6 H15 N



RN 30575-69-0 CAPLUS
CN 2-Indancarboxylic acid, 4,5,6,7-tetrabromo-1,3-dioxo-, ethyl ester (8CI) (CA INDEX NAME)



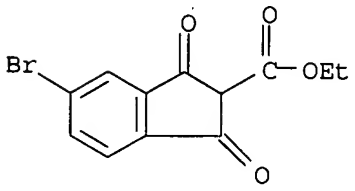
L9 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:132349 CAPLUS
DOCUMENT NUMBER: 72:132349
TITLE: Condensation of dicarboxylic **acid** anhydrides with compounds containing active methylene groups. VIII. 5-bromo-1,3-indandione and its derivatives
AUTHOR(S): Cema, G.; Rotbergs, J.; Oskaja, V.
CORPORATE SOURCE: Latv. Gos. Univ. im. Stucki, Riga, USSR
SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (**1969**), (3), 329-35
CODEN: LZAKAM; ISSN: 0002-3248
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB The title compds. are prepared Thus, 10 g I and 1.6 g Na were treated with 25 ml AcOEt to yield 63% II, which, treated with 5% H2SO4, gave III. II (3.2 g) in 230 ml hot H2O with 21 ml 1:1 HCl gave 1.35 g (59.5%) iV, m. 157-60°. 4-Bromophthalic anhydride (V) (4.54 g) and 2.6 g AcCH2CO2Et in 20.4 g Ac2O with 6.1 g Et3N gave an intermediate (VI), m. 85-90°, of unde td. structure, which, dissolved in 0.25% NaOH and

treated with 1:1 HC l, gave III. VI (1 g), dissolved in 200 ml 0.25% NaOH and acidified with 1:1 HCl gave 64.8% IV. IV is in the diketo form. 2-Nitroso- (m. 211-13°) and 2-nitro- (m. 84°) derivs. of IV were prepared Benzylidene derivs. of IV were obtained from 0.004 mole IV and 0.004 m ole benzaldehyde. Thus prepared were VII (R and m.p. given): p-O2NC6H4CH, 257-9°; p -BrC6H4CH, 214-16°; p-ClC6H4CH, 190-5°; p-MeO-C6H4CH, 159 -61°; PhCH, 170-1°; 3,4-(MeO)2C6H3CH, 231-3°; p-Et2NC6H4CH, 160-2°.

IT **27611-40-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 27611-40-1 CAPLUS

CN 2-Indancarboxylic acid, 5-bromo-1,3-dioxo-, ethyl ester (8CI) (CA INDEX NAME)




L9 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:121216 CAPLUS

DOCUMENT NUMBER: 72:121216

TITLE: Condensation of dicarboxylic **acid** anhydrides with compounds containing active methylene groups. IX. Condensation of 3- and 4-iodaphthalic **acid** anhydrides with acetoacetic ester

AUTHOR(S): Rotbergs, J.; Cema, G.; Oskaja, V.

CORPORATE SOURCE: Latv. Gos. Univ. im. Stucki, Riga, USSR

SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (**1969**), (3), 336-9
CODEN: LZAKAM; ISSN: 0002-3248

DOCUMENT TYPE: Journal

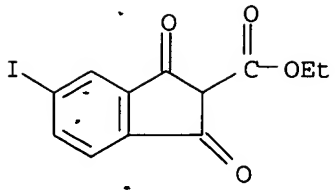
LANGUAGE: Russian

AB 3-Iodophthalic anhydride (5.48 g) (I) and 2.6 g AcCH2CO2Et (II) in 30.6 g Ac2O with 6.1 g EtN3 gave 5.34 g yellow product, which, (1 g) in 500 ml hot H2O acidified with 1:1 HCl yielded 27.2% Et 4-iodo-1,3-indandione-2-carboxylate, m. 133-4° (decomposition). Similarly prepared was Et 5-iodo-1,3-indandione-2-carboxylate, m. 105-6° (decomposition) from 4-iodophthalic anhydride. The unpurified product of the condensation of I with II (1 g) was boiled with 200 ml H2O and 40 ml concentrated HCl until CO2 evolution ceased, to give (49.1%) 4-iodo-1,3-indandione (III), m. 147-8° (decomposition). 2-Benzal-4-iodo-1,3-indandione, m. 153-5°, and III dioxime, m. 268-70°, were also prepared Similarly were obtained 5-iodo-1,3-indandione (IV), m. 171-2° (decomposition), 2-benzal-5-iodo-1,3-indandione, m. 158-60°, and IV dioxime, m. 252-5°. The 2 ir bands in the region 1688-1739 cm-1 prove III, IV, and their 2-benzal derivs. are in the diketo form.

IT **27117-90-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 27117-90-4 CAPLUS

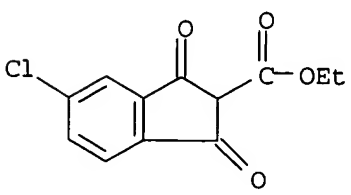
CN 2-Indancarboxylic acid, 5-iodo-1,3-dioxo-, ethyl ester (8CI) (CA INDEX NAME)



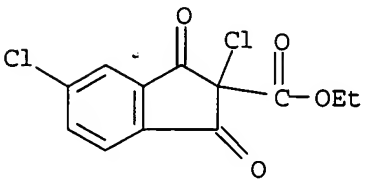
L9 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:37507 CAPLUS
DOCUMENT NUMBER: 70:37507
TITLE: Condensation of dicarboxylic **acid** anhydrides with compounds containing active methylene groups. VII. 5-Chloroindan-1,3-dione and its derivatives
AUTHOR(S): Cema, G.; Rotbergs, J.; Oskaja, V.
CORPORATE SOURCE: Latv. Gos. Univ. im. Stucka, Riga, USSR
SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (**1968**), (4), 466-70
CODEN: LZAKAM; ISSN: 0002-3248
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB 4-Chlorophthalic **acid** anhydride (I) was condensed with AcCH2CO2Et (II) in Ac2O containing NEt3 and the condensate treated with dilute HCl to obtain Et 5-chloro-1,3-indandione-2-carboxylate (III). More vigorous treatment of the condensate with HCl gave 5-chloro-1,3-indandione (IV). Thus, 15.15 g. NEt3 was added to a mixture of 9.13 g. I and 6.5 g. II in 30.6 g. Ac2O. After 24 hrs. at room temperature the mixture was poured onto ice and 35 ml. concentrated HCl. An oil separated and crystallized to a brown intermediate m. .apprx.105°. This (4 g.) in 200 ml. 1% NaOH treated dropwise with 1:1 HCl gave 2.8 g. III, m. 109-10°. When 1 g. of the brown intermediate was boiled with 200 ml. H2O and 40 ml. concentrated HCl until half dissolved and the mixture filtered rapidly, there separated from the filtrate 0.39 g. of IV, m. 137-8°. Cl with III in CCl4 gave 0.83 g. Et 2,5-dichloro-1,3-indandione-2-carboxylate (V), m. 67-8°. III (1.8 g.) with 60 ml. M solution of Br in glacial HOAc gave 3.15 g. 2,2-dibromo-5-chloro-1,3-indandione, m. 146-7° (VI). Derivs. of IV prepared were: dioxime C9H7O2N2Cl, m. 237-8° (decomposition), semicarbazone, m. .apprx. 280° (decomposition); thiosemicarbazone, m. 230° (decomposition) Nitrosation of IV yielded the 2-nitroso derivative, C9H4O3NCl, in 2 forms, yellow from C6H6, m. 178-83° and green from 50% aqueous alc., m. 192-4°. IV with fuming HNO3 yielded the 2-nitro derivative, C9H4O4NCl·3H2O. Crystals of 2-nitro-4-chloro-1,3-indandione also contain 3 moles H2O. Other derivs. of IV prepared were: 2-benzylidene-5-chloro-1,3-indandione, m. 149-53°; 2-(4-nitrobenzylidene m. 224-6°; 2-(4-bromobenzylidene)-, m. 227-9°; 2-(4-chlorobenzylidene)-(VII), m. 216-18°; 2-(4-methoxybenzylidene)-, m. 181-3°, and 2-(4-dimethylaminobenzylidene)- (VIII), m. 208-9°. The 1st 4 are yellow, VII is orange, and VIII red. Ir absorption data are given.

IT **22018-97-9P 22018-98-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 22018-97-9 CAPLUS
CN 2-Indancarboxylic acid, 5-chloro-1,3-dioxo-, ethyl ester (8CI) (CA INDEX NAME)



RN 22018-98-0 CAPLUS
CN 2-Indancarboxylic acid, 2,5-dichloro-1,3-dioxo-, ethyl ester (8CI) (CA INDEX NAME)




=> file stnguide

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 49.85 | 274.90 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -7.30 | -14.60 |

FILE 'STNGUIDE' ENTERED AT 10:26:33 ON 28 FEB 2005


FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Feb 25, 2005 (20050225/UP).

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YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L9 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1961:96341 CAPLUS
DOCUMENT NUMBER: 55:96341
ORIGINAL REFERENCE NO.: 55:18126b-d
TITLE: Dyeing hydrophobic fibers with disperse dyes
INVENTOR(S): Merian, Ernst; Senn, Otto
PATENT ASSIGNEE(S): Sandoz Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | |
|---|---|---|---|---|---|
| DE 1090172 | | 19601006 | DE | | <-- |
| US 3093437 | | 1963 | US | | <-- |

AB A process is described for dyeing hydrophobic fibers, particularly poly(ethylene terephthalate), with disperse dyes to give yellow and orange colors of good light-, sublimation-, thermal fixation-, and perspiration fastness; at the same time good reserve of wool, cotton, and viscose is obtained when dyeing mixed fabrics. For this purpose, dyes are used which are obtained by coupling 1 mole diazotized nitroanilines having a substituent in the 4-position making them H2O-soluble, with 1 mole of 1,3-indandione, chloro-1,3-indandione, or 5,6-dichloro-1,3-indandione, or derivs. of these compds., such as 1,3-indandione-2-carboxylic **acid** or its alkyl esters. The resulting dyes are dissolved in finely divided form in a H2O-miscible solvent, the solution poured into H2O, the product filtered, washed, and mixed with a dispersing agent. The paste obtained can be dried at ordinary or reduced pressure or by atomizing. The polyester fiber is dyed by known methods in the presence of a carrier at 80-100°, or in the absence of a carrier at 100-140° under

pressure.

IT **99979-36-9**, 2-Indancarboxylic **acid**, 5,6-dichloro-1,3-dioxo-, ethyl ester
(dyes from and dyeing hydrophobic fibers therewith)

RN 99979-36-9 CAPLUS

CN 2-Indancarboxylic acid, 5,6-dichloro-1,3-dioxo-, ethyl ester (6CI) (CA INDEX NAME)